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09/750,592	12/28/2000	Bhupal Kanaiyalal Dharia	SPECT-01041US0 DEL	6761
43813 7590 12/27/2006 WINDY STRICKLAND			EXAMINER	
2012 BOB WH	HITE CT		RAMPURIA, SHARAD K	
MARY ESTHER, FL 32569			ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

•	Application No.	Applicant(s)			
	09/750,592	DHARIA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sharad Rampuria	2617			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti ad will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 06	October 2006.				
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) <u>1-4,6-15,25-28,30-33,37-39,42,43,44</u> 4a) Of the above claim(s) is/are withdrest signal is a	rawn from consideration. 45,49-53 and 56-94 is/are rejected				
Application Papers	•				
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and according a construction and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the last of	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is objection	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summan				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal (6) Other:				

DETAILED ACTION

The Art Unit location of this application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Disposition of the claims

The current office-action is in response to the remarks filed on 10/06/2006.

Accordingly, Claims 5, 16-24, 29, 34-36, 40-41, 44, 46-48, & 54-55 are cancelled and Claims 1-4, 6-15, 25-28, 30-33, 37-39, 42-43, 45, 49-53, 56-94 are imminent for further assessment as follows:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 8-15, 25-27, 30-33, 37-38, 42-43, 46, 49-52, 57-94 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin et al. (US 6212387) in view of Howard et al. (US 5715516).

Regarding claim 1, McLaughlin disclosed A communication system for communication using wireless signals including down-link signals to and up-link signals from mobile stations, comprising, a plurality of transceiver stations having broadcast channels and dedicated channels carried by said wireless signals, (Abstract)

Measurement means for forming measurements of said wireless signals, (Col.10; 63 - Col.11; 3)

McLaughlin fails to disclose processor means to process said measurements to determine preferred ones of said transceiver stations for particular dedicated channels for a particular mobile station, and control means to dynamically select said preferred ones of said transceiver stations to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that processor means to process said measurements to determine preferred ones of said transceiver stations for particular dedicated channels for a particular mobile station (Col.13; 1-64)

Control means to dynamically select said preferred ones of said transceiver stations to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. (Col.13; 1-64 and further clarification; Col.14; 64-Col.15; 8, Col.16; 19-31, Col.12; 63-Col.13; 32) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include processor means to process said measurements to determine preferred ones of said transceiver stations for particular dedicated channels for a particular mobile station, and control means to dynamically select said preferred ones of said transceiver stations to

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provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station in order to provide a particular broadcaster for separate transmission.

Regarding claim 2, McLaughlin disclosed The communication system of claim 1 wherein said measurement means measures said up-link signals from said particular mobile station to form said measurements. (Col.9; 29-56)

Regarding claim 3, McLaughlin disclosed The communication system of claim 2 wherein, said control means is responsive to said processor information for changing said dedicated channels as frequently as a signal change time determined by a frequency of said uplink signals. (Col.11; 4-15)

Regarding claim 4, McLaughlin disclosed all the particulars of the claim except change time is approximately an up-link signal frame rate of said up-link signals. However, Howard teaches in an analogous art, that The communication system of claim 3 wherein said change time is approximately an up-link signal frame rate of said up-link signals. (Col.14; 64 – Col.15; 8)

Regarding claim 8, McLaughlin disclosed The communication system of claim 1 wherein said zone manager means is formed of a plurality of zone managers, one for each of said transceiver stations. (Col.12; 43-51)

Regarding claim 9, McLaughlin disclosed The communication system of claim 8 wherein said zone managers are co-located with said transceiver stations at macrodiverse locations. (Col.12; 53-59)

Regarding claim 10, McLaughlin disclosed he communication system of claim 9 wherein said zone managers are interconnected with each other forming a network. (Col.9; 29-56)

Regarding claim 11, McLaughlin disclosed The communication system of claim 8 wherein two or more of said zone managers are co-located at a common location. (Col.9; 29-56)

Regarding claim 13, McLaughlin disclosed The communication system of claim 8 wherein said plurality of zone managers include a host zone manager and one or more assistant zone managers, said host zone manager operative to communicate over said particular broadcast channels with said particular mobile station while said particular dedicated channels for said particular mobile station are dynamically switched among said one or more assistant zone managers and said host zone manager. (Col.12; 34-59)

Regarding claim 14, McLaughlin disclosed The communication system of claim 13 wherein said measurement means includes a plurality of measurement units, one for each of said zone managers, where each measurement unit measures up-link traffic signals from said

particular mobile station to form ones of said measurements as unit measurements. (Col.12; 34-59)

Regarding claim 15, McLaughlin disclosed all the particulars of the claim except processor means for a host zone manager receives a plurality of said unit measurements and operates for processing said unit measurements to provide host processor information for determining preferred ones of said broadcasters and preferred ones of said collectors for said particular dedicated channels for said particular mobile station, said control means dynamically selects said particular dedicated channels for said particular mobile station by selecting said preferred ones of said broadcasters to provide particular down-link signals and dynamically selects said preferred ones of said collectors to receive particular up-link signals for said particular mobile station. However, Howard teaches in an analogous art, that The communication system of claim 13 wherein, said transceiver stations include a plurality of macro-diverse broadcasters distributed at macro-diverse broadcaster locations for broadcasting said down-link signals and include a plurality of macro-diverse collector means distributed at macro-diverse collector locations for receiving said up-link signals and providing received signals for said particular mobile station, said Measurement means includes a plurality of measurement units, one for each of said zone managers, where each measurement unit measures up-link signals from said particular mobile station to form unit measurements representing the quality of said received signals at one of said macrodiverse collector locations, said processor means for a host zone manager receives a plurality of said unit measurements and operates for processing said unit measurements to provide host processor information for determining preferred ones of said

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broadcasters and preferred ones of said collectors for said particular dedicated channels for said particular mobile station, (Col.13; 1-17) said

Control means dynamically selects said particular dedicated channels for said particular mobile station by selecting said preferred ones of said broadcasters to provide particular downlink signals and dynamically selects said preferred ones of said collectors to receive particular up-link signals for said particular mobile station. (Col.13; 1-17 and further clarification; Col.14; 64-Col.15; 8, Col.16; 19-31, Col.12; 63-Col.13; 32)

Regarding claim 25, McLaughlin disclosed The communication system of claim 1 wherein said manager means is formed of a plurality of zone managers, one for each of said transceiver stations, each particular one of said zone managers having, control means including, a resource manager for managing available resources in said communication system, an airlink controller for controlling the radio channels in said communication system, interface means for providing interfaces for said particular one of said zone managers. (Col.12; 34-59)

Regarding claim 26, McLaughlin disclosed The communication system of claim 25 wherein said interface means includes a zone_manager-to-zone_manager interface manager for controlling zone manager links among said zone managers. (Col.12; 34-59)

Regarding claim 27, McLaughlin disclosed The communication system of claim 25 wherein said interface means includes a transceiver interface for controlling a transceiver link

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from said particular one of said zone managers to a corresponding transceiver station. (Col.12; 34-59)

Regarding claim 30, McLaughlin disclosed The communication system of claim 25 wherein one or more of said zone managers is integrated into one or more of said transceiver stations. (Col.9; 29-56)

Regarding claim 31, McLaughlin disclosed The communication system of claim 1 wherein said control means includes broadcaster commands for controlling the down-link signals to each of selected ones of said mobile stations and collector commands for controlling the plurality of macro-diverse collectors for changing the up-link signals for each of other selected ones of said mobile stations. (Col.9; 29-56)

Regarding claim 32, McLaughlin disclosed The communication system of claim 1 wherein said wireless signals employ multiple access protocols. (Col.9; 15-21)

Regarding claim 33, McLaughlin disclosed The communication system of claim 32 wherein said wireless signals employ TDMA, CDMA, SDMA, FDMA protocols. (Col.9; 15-21)

Regarding claim 37, McLaughlin disclosed The communication system of claim 1 wherein said transceiver stations communicate over a region containing one or more zones and

said measurement means includes measurements from one or more collectors in said transceiver stations. (Col.12; 34-59)

Regarding claim 38, McLaughlin disclosed The communication system of claim 37 wherein said measurements from one or more collectors include radio link conditions between a mobile station and said one or more collectors. (Col.12; 34-59)

Regarding claim 42, McLaughlin disclosed The communication system of claim 37 wherein said measurements from one or more collectors are processed in the zone manager means related to said one or more base transceiver stations. (Col.9; 29-56)

Regarding claim 43, McLaughlin disclosed The communication system of claim 1 wherein said zone manager means includes a host zone manager and one or more assistant zone managers and said host zone manager processes said measurements from the one or more assistant zone manager means to provide processed measurements. (Col.12; 34-59)

Regarding claim 46, McLaughlin disclosed The communication system of claim 44 wherein said processor information includes timing and synchronization information. (Col.11; 4-15)

Regarding claim 49, McLaughlin disclosed The communication system of claim 1 wherein said transceiver stations include broadcaster controllers for controlling broadcaster

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transmitters and said broadcaster controller selects one or more broadcaster transmitters for forward communications with mobile stations based on said processor information. (Col.9; 29-56)

Regarding claim 50, McLaughlin disclosed In a communication system for communication using wireless signals including down-link signals to and up-link signals from mobile stations, the method comprising, transmitting, from a plurality of transceiver stations, broadcast channels and dedicated channels over said wireless signals, (Abstract)

McLaughlin fails to disclose forming measurements of said wireless signals with measurement means, with zone manager means, processing, with processor means, said measurements forming processor information to determine preferred ones of said transceiver stations for particular dedicated channels for a particular mobile station, dynamically selecting, with control means, said preferred ones of said transceiver stations to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that forming measurements of said wireless signals with measurement means, with zone manager means, processing, with processor means, said measurements forming processor information to determine preferred ones of said transceiver stations for particular dedicated channels for a particular mobile station,

Dynamically selecting, with control means, said preferred ones of said transceiver stations to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular

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mobile station. (Col.13; 1-64 and further clarification; Col.14; 64-Col.15; 8, Col.16; 19-31, Col.12; 63-Col.13; 32)

Regarding claim 51, McLaughlin disclosed In the communication system of claim 50, measuring said up-link signals from said particular mobile station to form said measurements. (Col.9; 29-56)

Regarding claim 52, McLaughlin disclosed In the communication system of claim 50, changing said dedicated channels as frequently as a signal change time determined by a frequency of said up-link signals. (Col.11; 4-15)

Regarding claim 57, McLaughlin disclosed A communication system for providing wireless communications with mobile devices, the system comprising: (Abstract)

McLaughlin fails to disclose a plurality of transceiver stations to communicate with mobile devices, wherein the plurality of transceiver stations communicate via broadcast channels and dedicated channels, wherein one of the plurality of transceiver stations having best radio access to a first mobile device will be designated a host transceiver station for the first mobile device, and wherein the host transceiver will provide the broadcast channels for communication with the first mobile device; and a plurality of processors associated with said plurality of transceivers to manage communications, wherein one of the plurality of processors associated with the host transceiver station will be a host zone manager for the first mobile device, wherein the host processor is capable of dynamically selecting one or more of the plurality of transceiver

stations to provide the dedicated channels for communications with the first mobile device based on signal measurements, wherein the dynamic selection does not affect the host transceiver providing the broadcast channels. However, Howard teaches in an analogous art, that a plurality of transceiver stations to communicate with mobile devices, wherein the plurality of transceiver stations communicate via broadcast channels and dedicated channels, wherein one of the plurality of transceiver stations having best radio access to a first mobile device will be designated a host transceiver station for the first mobile device, and wherein the host transceiver will provide the broadcast channels for communication with the first mobile device; (Col.13; 1-64) and a plurality of processors associated with said plurality of transceivers to manage communications, wherein one of the plurality of processors associated with the host transceiver station will be a host zone manager for the first mobile device, wherein the host processor is capable of dynamically selecting one or more of the plurality of transceiver stations to provide the dedicated channels for communications with the first mobile device based on signal measurements, wherein the dynamic selection does not affect the host transceiver providing the broadcast channels. (Col.13; 1-64 and further clarification; Col.14; 64-Col.15; 8, Col.16; 19-31, Col.12; 63-Col.13; 32)

Regarding claim 58, McLaughlin disclosed The system of claim 57, wherein the signal measurements are measurements of up-link signals from the first mobile device. (Col.9; 29-56)

Regarding claim 59, McLaughlin disclosed The system of claim 57, wherein said host processor receives signal measurements from at least some subset of said plurality of processors,

wherein the signal measurements are measurements of uplink signals from the first mobile station; processes the signal measurements received; and dynamically selects, based on the processed signal measurements, the one or more of said plurality of transceivers and the associated processors to provide the dedicated channels for the first mobile device. (Col.10; 5-18)

Regarding claim 60, McLaughlin disclosed The system of claim 59, wherein said host processor also instructs the one or more of said plurality of transceivers and the associated processors that they are providing the dedicated channels for the first mobile device. (Col.9; 29-56)

Regarding claim 61, McLaughlin disclosed The system of claim 57, wherein said plurality of processors are connected together. (Col.10; 44-67)

Regarding claim 62, McLaughlin disclosed The system of claim 58, wherein said processor may dynamically change the transceiver station providing the dedicated channels as frequently as frequency of the up-link signals. (Col.10; 5-18)

Regarding claim 63, McLaughlin disclosed The system of claim 57, wherein a first set of transceivers can provide uplink communications and a second set of transceivers can provide downlink communications. (Col.10; 44-67)

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Regarding claim 64, McLaughlin disclosed The system of claim 57, wherein a first set of transceivers can provide traffic signals and a second set of transceivers can provide control signals. (Col.10; 44-67)

Regarding claim 65, McLaughlin disclosed A processor for use in a communication system for providing wireless communications with mobile stations (col.10; 44-67), the processor comprising:

a transceiver interface to receive signals from an associated transceiver and to provide instructions to the associated transceiver, wherein the signals received from the associated transceiver include uplink signals from mobile devices; (col.10; 44-67)

a controller interface to communicate with a controller, wherein the communications with the controller include assignment of a host transceiver and host processor for a particular mobile device,, wherein the host transceiver communicates with the particular mobile device via broadcast channels; (col.10; 44-67)

McLaughlin fails to disclose a processor interface to communicate with a plurality of other processors, wherein the communications related to the particular mobile device include receipt of measurement signals related to the particular mobile station and transmission of instructions if said processor is the host processor, and includes receipt of instructions from a host processor and transmission of measurement signals associated with the particular mobile station to the host processor if said processor is not the host processor; a signal processor, active for the particular mobile device when said processor is the host processor, to process the measurement signals received from at least some subset of the plurality of other processors and

the measurement signal from said processor; and a selector to dynamically select an assistant processor and associated assistant transceiver to provide communications with the particular mobile device via dedicated channels based on the processed measurement signals. However, Howard teaches in an analogous art, that a processor interface to communicate with a plurality of other processors, wherein the communications related to the particular mobile device include receipt of measurement signals related to the particular mobile station and transmission of instructions if said processor is the host processor, and includes receipt of instructions from a host processor and transmission of measurement signals associated with the particular mobile station to the host processor if said processor is not the host processor; (Col.13; 1-64) a signal processor, active for the particular mobile device when said processor is the host processor, to process the measurement signals received from at least some subset of the plurality of other processors and the measurement signal from said processor; (Col.13; 1-64) and a selector to dynamically select an assistant processor and associated assistant transceiver to provide communications with the particular mobile device via dedicated channels based on the processed measurement signals. (Col.13; 1-64 and further clarification; Col.14; 64-Col.15; 8, Col.16; 19-31, Col.12; 63-Col.13; 32)

Regarding claim 66, McLaughlin disclosed The processor of claim 65, wherein the measurement signals are measurements of up-link signals from the particular mobile device. (Col.9; 29-56)

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Regarding claim 67, McLaughlin disclosed The processor of claim 65, wherein said selector may dynamically select as frequently as frequency of the up-link signals. (Col.10; 5-18)

Regarding claim 68, McLaughlin disclosed The processor of claim 65, wherein said processor may be the host processor for a first mobile device and an assistant processor for a second mobile device. (Col.9; 29-56)

Regarding claim 69, McLaughlin disclosed The processor of claim 65, wherein said processor interface for a host processor transmits instructions to an assistant processor to provide the dedicated channels for communication with the particular mobile device when said selector selects the associated assistant transceiver to provide communications with the particular mobile device via the dedicated channels. (Col.10; 5-18)

Regarding claim 70, McLaughlin disclosed all the particulars of the claim except wherein said processor interface for an assistant processor receives instructions from a host processor to provide the dedicated channels for communication with the particular mobile device when the host processor selects the associated assistant transceiver to communicate with the particular mobile device via the dedicated channels. However, Howard teaches in an analogous art, that The processor of claim 65, wherein said processor interface for an assistant processor receives instructions from a host processor to provide the dedicated channels for communication with the particular mobile device when the host processor selects the associated assistant

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transceiver to communicate with the particular mobile device via the dedicated channels. (Col.13; 1-64)

Regarding claim 71, McLaughlin disclosed The processor of claim 65, further comprising a resource manager for controlling radio frequencies of associated transceiver. (Col.10; 44-67)

Regarding claim 72, McLaughlin disclosed The processor of claim 65, wherein said host processor can select a first set of transceivers to provide uplink communications and a second set of transceivers to provide downlink communications. (Col.10; 5-18)

Regarding claim 73, McLaughlin disclosed The processor of claim 65, wherein said host processor can select a first set of transceivers can provide traffic signals and a second set of transceivers can provide control signals. (Col.10; 5-18)

Regarding claim 74, McLaughlin disclosed a communication system for communication using wireless signals including down-link signals to and up-link signals from mobile stations, comprising, a plurality of transceiver stations having broadcast channels and dedicated channels carried by said wireless signals, (Abstract, Col.10; 19-43, Col.11; 62-Col.12; 3)

McLaughlin doesn't disclose expressly, separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art that preferred ones of said transceiver stations for particular dedicated

channels for a particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Regarding claim 75, McLaughlin disclosed all the particulars of the claim except particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that the communication system of claim 74, wherein at least some of said transceivers are responsive to a selection of preferred ones of said transceiver to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Regarding claim 76, McLaughlin disclosed the communication system of claim 75 wherein at least some of said transceivers are a component of a zone manager. (Col.12; 43-51)

Regarding claims 77-78, McLaughlin disclosed the communication system of claim 76 wherein said zone manager is capable of determining/selecting preferred ones of said transceiver. (Col.11; 62-Col.12; 3)

Regarding claims 80-84, McLaughlin disclosed the communication system of claim 75 wherein said at least some of said transceivers are further responsive to a dynamic selection of said preferred ones of said transceivers. (Col.11; 62-Col.12; 3, Col.10; 5-17)

Regarding claim 85, McLaughlin disclosed a method of operating a communication system for communication using wireless signals including downlink signals to and up-link signals from mobile stations, comprising, (Abstract, Col.10; 19-43, Col.11; 62-Col.12; 3)

McLaughlin doesn't disclose expressly, separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art that preferred ones of said transceiver stations for particular dedicated channels for a particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Regarding claim 86, McLaughlin disclosed all the particulars of the claim except particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that the method of claim 85, and further comprising; selecting said preferred ones of said transceiver to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Regarding claim 87, McLaughlin disclosed the method of claim 86, wherein said communication system includes at least one zone manager. (Col.12; 43-51)

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Regarding claims 88-89, McLaughlin disclosed the method of claim 87, wherein said determining/selecting is performed by said zone manager at least in part. (Col.11; 62-Col.12; 3)

Regarding claim 90, McLaughlin disclosed all the particulars of the claim except particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that the method of claim 86, wherein said selecting comprises: dynamically selecting said preferred ones of said transceivers to provide particular dedicated channels for a particular mobile station separately from said one of said transceivers to provide particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Regarding claim 91, McLaughlin disclosed the method of claim 90, wherein said communication system includes zone managers that perform said dynamic selecting at least in part. (Col.11; 62-Col.12; 3)

Regarding claim 92, McLaughlin disclosed an apparatus for use in a communication system using wireless signals including downlink signals to and up-link signals from mobile stations, comprising, (Abstract, Col.14; 64-Col.15; 8)

McLaughlin doesn't disclose expressly, separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that a processor, said processor adapted to determine preferred ones

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of said transceiver stations for particular dedicated channels for a particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Regarding claims 93-94, McLaughlin disclosed all the particulars of the claim except particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station. However, Howard teaches in an analogous art, that the method of claim 92, wherein said processor is further adapted to dynamically select said preferred ones of said transceivers to provide particular dedicated channels for a particular mobile station separately from said one of said transceivers to provide particular broadcast channels for said particular mobile station. (Col.13; 1-64)

Claims 6-7, 18-19, & 53-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin et al. & Howard et al. further in view of Chavez et al.

Regarding claim 6, The above combination disclosed all the particulars of the claim except change time is less than 1 second. However, Chavez teaches in an analogous art, that The communication system of claim 3 wherein said change time is less than 1 second. (Col.5; 12-16) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include change time is less than 1 second in order to provide improvement in cell boundary control with reduced time consumption.

Regarding claim 7, The above combination disclosed all the particulars of the claim except wherein said up-link signals from said particular mobile station are measurement signals occurring at a measurement signal rate of 1/T and wherein said processor operates, to generate said measurements at a rate of 1/T, to integrate a plurality of said measurements over an integration length to form integrated measurement reports, to form said integrated measurement reports using said processor information. However, Chavez teaches in an analogous art, that The communication system of claim 1 wherein said up-link signals from said particular mobile station are measurement signals occurring at a measurement signal rate of 1/T and wherein said processor operates, to generate said measurements at a rate of 1/T, to integrate a plurality of said measurements over an integration length to form integrated measurement reports, to form said integrated measurement reports using said processor information. (Col.8; 50 – Col.9; 25)

Regarding claim 18, The above combination disclosed all the particulars of the claim except change time is a multiple of said up-link signal frame rate. However, Chavez teaches in an analogous art, that The communication system of claim 17 wherein said change time is a multiple of said up-link signal frame rate. (Col.5; 61 - Col.6; 4)

Regarding claim 19, The above combination disclosed all the particulars of the claim except wherein said up-link signals from said particular mobile station are measurement signals occurring at a measurement signal rate of 1/T, wherein said measurement unit in each zone manager operates to generate said unit measurements at a rate of 1/T, wherein said processor

means in each zone manager operates, respectively, to generate integrated unit measurement reports by integrating a plurality of said unit measurements, respectively, over an integration length. However, Chavez teaches in an analogous art, that The communication system of claim 15, wherein said up-link signals from said particular mobile station are measurement signals occurring at a measurement signal rate of 1/T, wherein said measurement unit in each zone manager operates to generate said unit measurements at a rate of 1/T, wherein said processor means in each zone manager operates, respectively, to generate integrated unit measurement reports by integrating a plurality of said unit measurements, respectively, over an integration length. (Col.8; 50 – Col.9; 25)

Regarding claim 53, The above combination disclosed all the particulars of the claim except change time is approximately an up-link signal frame rate of said up-link signals.

However, Chavez teaches in an analogous art, that The communication system of claim 52 wherein said change time is approximately an up-link signal frame rate of said up-link signals. (Col.5; 27-46)

Regarding claim 56, The above combination disclosed all the particulars of the claim except wherein said up-link signals from said particular mobile station are measurement signals occurring at a measurement signal rate of 1/T and wherein said processing operates, to generate said measurements at a rate of 1/T, to integrating a plurality of said measurements over an integration length to form integrated measurement reports, to form said integrated measurement reports using said processor information. However, Chavez teaches in an analogous art, that The

communication system of claim 50 wherein said up-link signals from said particular mobile station are measurement signals occurring at a measurement signal rate of 1/T and wherein said processing operates, to generate said measurements at a rate of 1/T, to integrating a plurality of said measurements over an integration length to form integrated measurement reports, to form said integrated measurement reports using said processor information. (Col.8; 50 – Col.9; 25)

Claims 12, 28, & 39, are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin et al. & Howard et al. further in view of Kao.

Regarding claim 12, The above combination disclosed all the particulars of the claim except a controller link having an interface between a base station controller and one of said transceiver stations and one of said zone managers. However, Kao teaches in an analogous art, that The communication system of claim 11 wherein said common location is a base station controller in a cellular system. (Col.6; 15-23) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a controller link having an interface between a base station controller and one of said transceiver stations and one of said zone managers in order to provide a controller to monitor one or more base stations.

Regarding claim 28, The above combination disclosed all the particulars of the claim except wherein said communication system includes a controller link having an interface between a base station controller and one of said transceiver stations and one of said zone managers, corresponding to said one of said transceiver stations, is in said controller link.

However, Kao teaches in an analogous art, that The communication system of claim 25 wherein said communication system includes a controller link having an interface between a base station controller and one of said transceiver stations and one of said zone managers, corresponding to said one of said transceiver stations, is in said controller link. (Col.6; 15–23)

Regarding claim 39, The above combination disclosed all the particulars of the claim except radio link conditions include path loss. However, Kao teaches in an analogous art, that The communication system of claim 38 wherein said radio link conditions include path loss. (Col.10; 38-46)

Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin et al. & Howard et al. further in view of Ueno et al.

Regarding claim 45, The above combination disclosed all the particulars of the claim except wherein said processor information includes priority levels for the communication links with mobiles, timing and synchronization information, transmit power level, and locations of mobile stations. However, Ueno teaches in an analogous art, that The communication system of claim 43 wherein said processor information includes priority levels for the communication links with mobiles, timing and synchronization information, transmit power level, and locations of mobile stations. (Col.16; 31–39) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include priority levels for the communication links with mobiles in order to provide meta-signaling procedure based on performance.

Response to Remarks

Applicant's arguments filed on 10/06/2006 have been fully considered but they are not persuasive.

Relating to Claim 1:

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (e.g., a <u>host</u> <u>transceiver</u>, different from the selected transceivers, communicate the broadcast channels with the user.) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In comeback to Applicant's allegation that McLaughlin et al. & Howard et al. doesn't teach, "Control means to dynamically select said preferred ones of said transceiver stations to provide said particular dedicated channels for said particular mobile station separately from one of said transceiver stations providing particular broadcast channels for said particular mobile station." It is noted that the Examiner respectfully emphasize that the cited art, is legally efficient for the purpose of rendering claim unpatentable. In particular, Howard supports the declaration as, each of the broadcasters depend on different broadcast ranges for channels and may be varied on command from a zone manager. In a similar manner, each user has variable transmission power and hence the "user zone" is the area reached by the user broadcasting at different ranges at different times. (Please perceive Col.14; 64-Col.15; 8, Col.16; 19-31, Col.12;

63-Col.13; 32), at the same time as in support; "the examiner must give the broadest reasonable interpretation to all claims presented." As stated in MPEP § 2111 - § 2111.01. Hence, it is believed that McLaughlin et al. & Howard et al. *still teaches the claimed limitations*.

The above arguments also recites for the claims 50, 57, 65, 74, 85, 92, consequently the response is the same explanation as set forth above with regard to claim 1.

Because the remaining claims depend directly/indirectly, from one of the independent claims discussed above, consequently the response is the same explanation as set forth above.

With the intention of that explanation, it is believed and as enlighten above, the refutation are sustained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870. The examiner can normally be reached on M-F. (8:30-5 EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://portal.uspto.gov/external/portal/pair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

JEAN GELIN PRIMARY EXAMINER

Sharad Rampuria Patent Examiner Art Unit 2617